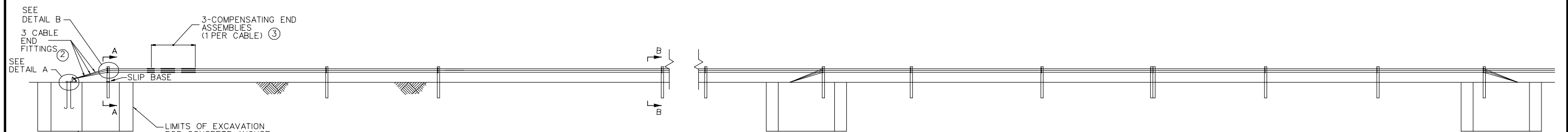


TYPICAL TERMINAL SECTION

MEDIAN INSTALLATION PLAN

TYPICAL INTERMEDIATE TERMINAL SECTIONS



MEDIAN ELEVATION

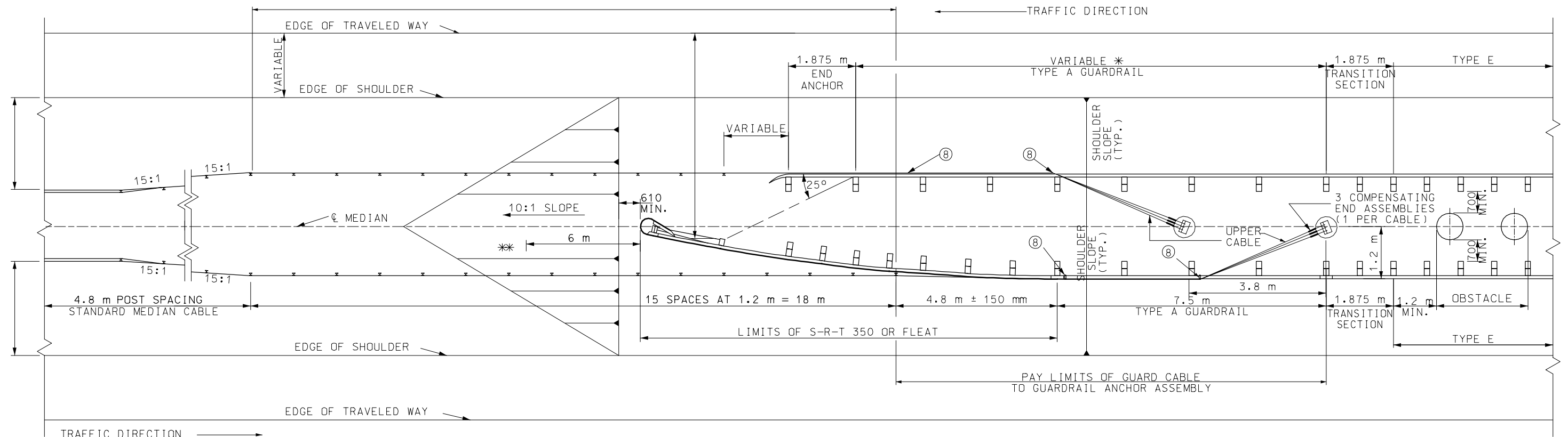
GENERAL NOTES:

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.

IN THE EVENT THE NORMAL 4.9 m' POST SPACING WOULD PLACE A POST ON A DROP INLET, THE SPACING OF THE TWO POSTS IMMEDIATELY PRECEDING THE INLET SHALL BE REDUCED SUCH THAT THE FOLLOWING POST CLEARS THE INLET. EACH SUBSEQUENT POST SHALL BE SPACED AT 4.9 m. IN NO CASE SHALL THE SPACING EXCEED 4.9 m.

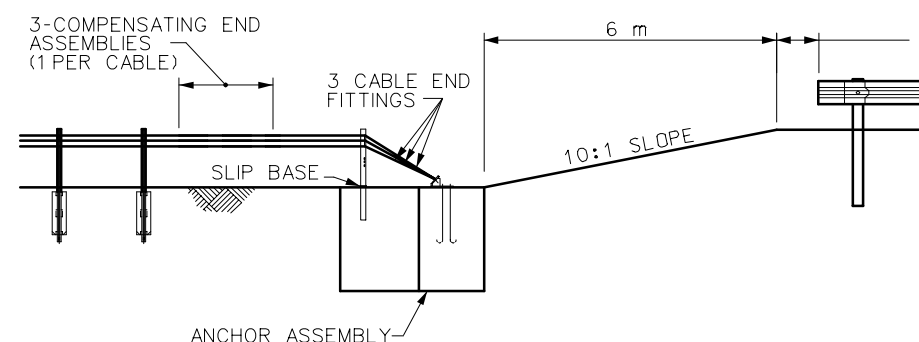
IN THE EVENT A LONITUDINAL MEDIAN PIPE IS ENCOUNTERED THE CABLE SHALL BE PLACED PARALLEL TO THE PIPE AT A MINIMUM OFFSET OF 305 mm. THE OFFSET SHALL BE ACHIEVED BY A MINIMUM 11:6 TAPER ON THE UPSTREAM AND DOWNSTREAM END OF THE PIPE.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
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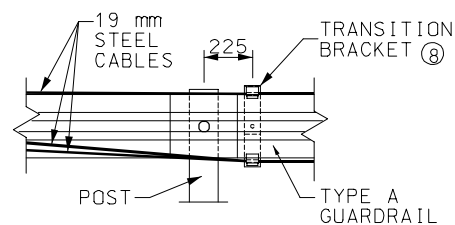


GUARD CABLE TO GUARDRAIL TRANSITION AT MEDIAN OBSTACLE

- * VARY LENGTH TO ACHIEVE 25° DEFLECTION TO SECOND POST OF S-R-T 350 OR FLEAT.
- ** IF GUARD CABLE IS USED WITH BULLNOSE GUARDRAIL SYSTEM, OR A CRASHWORTHY END TERMINAL ON A MEDIAN LESS THAN 18 m IN WIDTH, THE CABLE ANCHORAGE SHALL BE PLACED ON THE MEDIAN CENTERLINE 6 m FROM THE NOSE OF THE CRASHWORTHY END TERMINAL OR BULLNOSE GUARDRAIL SYSTEM.

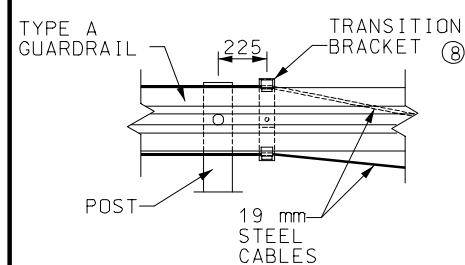


PROFILE OF TRANSITION AT MEDIAN OBSTACLE WITH BULLNOSE OR IN A MEDIAN NARROWER THAN 18 m**

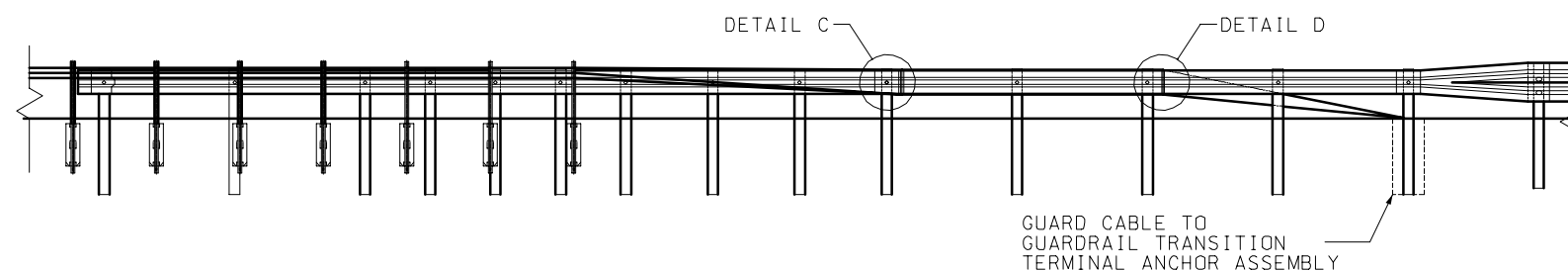


DETAIL C

FOR DETAIL (8)
SEE SHEET 5 OF 6.



DETAIL D



TYPICAL GUARD CABLE TO GUARDRAIL TRANSITION ELEVATION

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

WHEN GUARD CABLE IS LOCATED ALONG THE MEDIAN CENTERLINE NEAR A BRIDGE END OR CONCRETE BARRIER, IT SHALL BE ANCHORED BEHIND THE GUARDRAIL ASSEMBLY WITH THE GUARD CABLE ANCHOR ASSEMBLY. THE GUARD CABLE ANCHOR SHALL BE CONSTRUCTED SO THAT IT IS PROTECTED BY THE GUARDRAIL.

THIS DRAWING DEPICTS OPTIONS FOR THE ATTACHMENT OF GUARD CABLE TO GUARDRAIL. IT DOES NOT INDICATE THAT TWO RUNS OF CABLE ARE REQUIRED.

SUITABLE DRAINAGE MUST BE PROVIDED WHEN MEDIAN GRADING IMPEDES NORMAL FLOW.

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

THREE-STRAND GUARD CABLE

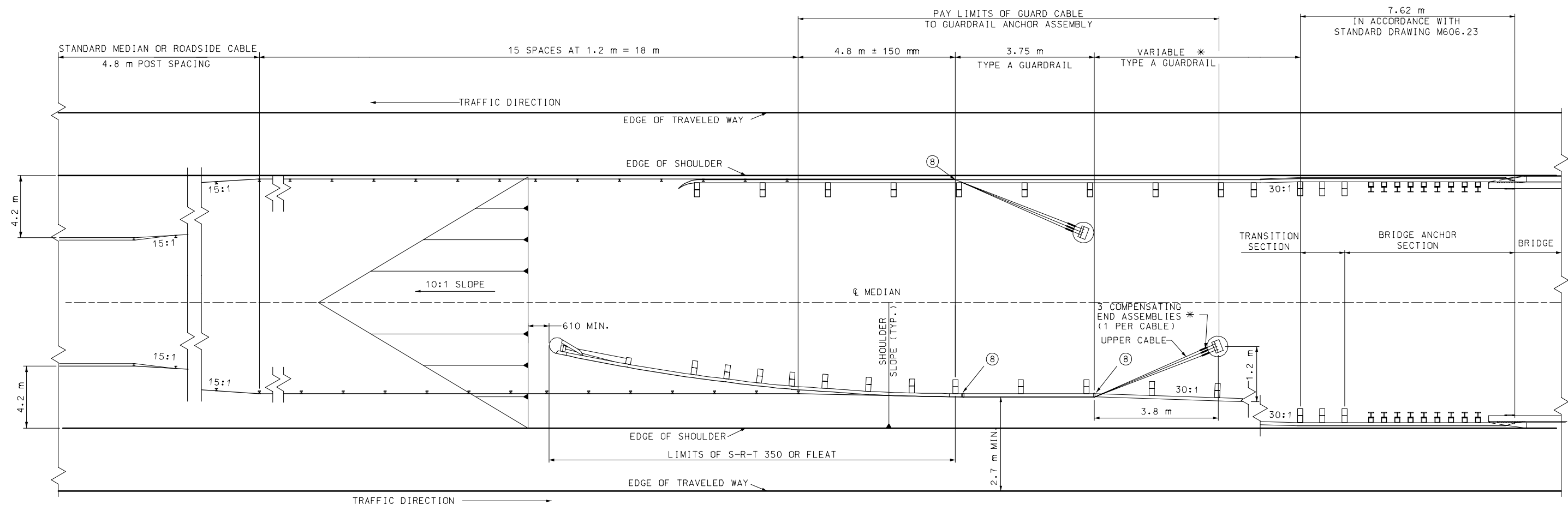
DATE: _____

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* LENGTH VARIES ACCORDING TO 30:1 TRANSITION LENGTH NEEDED TO ACHIEVE 2.7 m MIN. OFFSET FROM EDGE OF TRAVELED WAY.



GUARD CABLE TO GUARDRAIL TRANSITION AT MEDIAN BRIDGE END

GENERAL NOTES

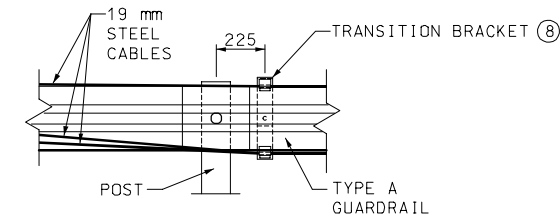
ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

WHEN GUARD CABLE IS LOCATED ALONG THE MEDIAN CENTERLINE NEAR A BRIDGE END OR CONCRETE BARRIER, IT SHALL BE ANCHORED BEHIND THE GUARDRAIL ASSEMBLY WITH THE GUARD CABLE ANCHOR ASSEMBLY. THE GUARD CABLE ANCHOR SHALL BE CONSTRUCTED SO THAT IT IS PROTECTED BY THE GUARDRAIL.

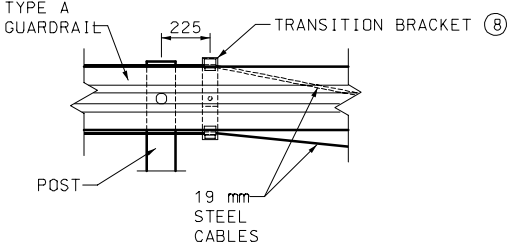
THIS DRAWING DEPICTS OPTIONS FOR THE ATTACHMENT OF GUARD CABLE TO GUARDRAIL. IT DOES NOT INDICATE THAT TWO RUNS OF CABLE ARE REQUIRED.

SUITABLE DRAINAGE MUST BE PROVIDED WHEN MEDIAN GRADING IMPEDES NORMAL FLOW.

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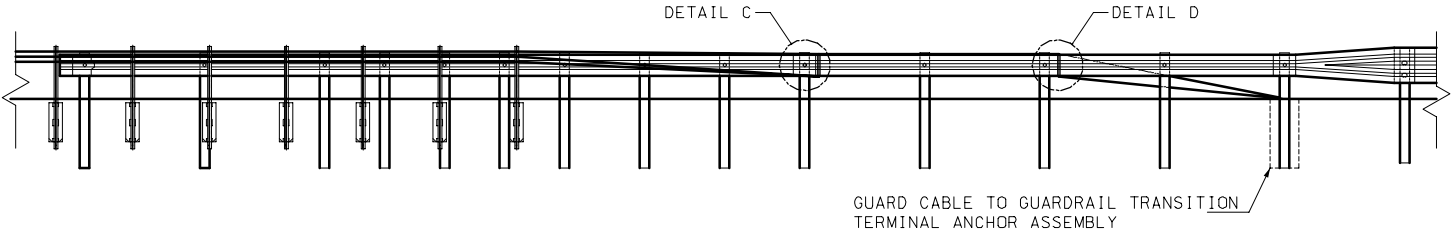


DETAIL C

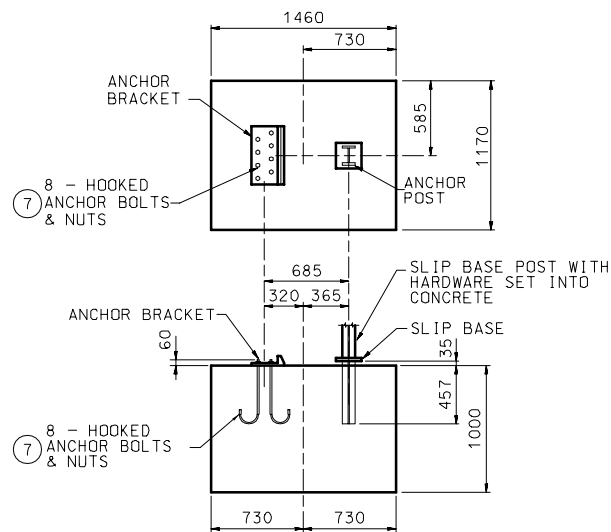


DETAIL D

FOR DETAIL ⑧
SEE SHEET 5 OF 5.

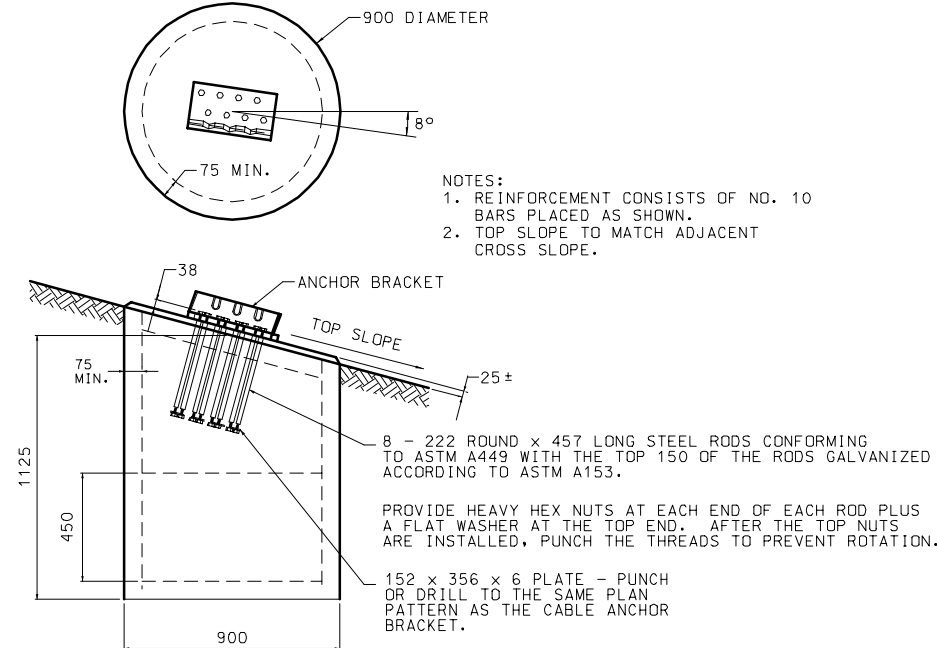


TYPICAL GUARD CABLE TO GUARDRAIL TRANSITION ELEVATION

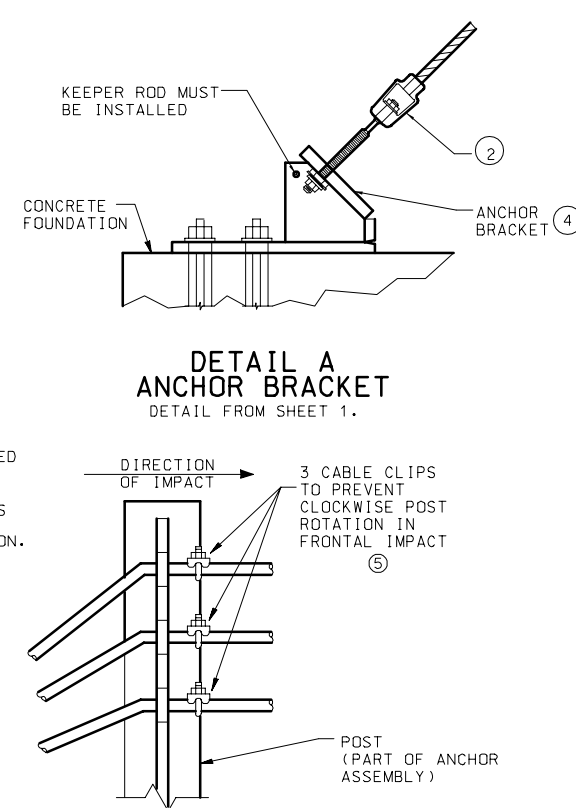


MEDIAN & ROADSIDE CABLE

- NOTES:
1. PLACE ANCHORS SO THE TOPS ARE LEVEL; WARP SLOPE TO FIT.
 2. THE CONCRETE ANCHOR BLOCK DOES NOT REQUIRE REINFORCEMENT.



GUARD CABLE TO GUARDRAIL TRANSITION



DETAIL A ANCHOR BRACKET

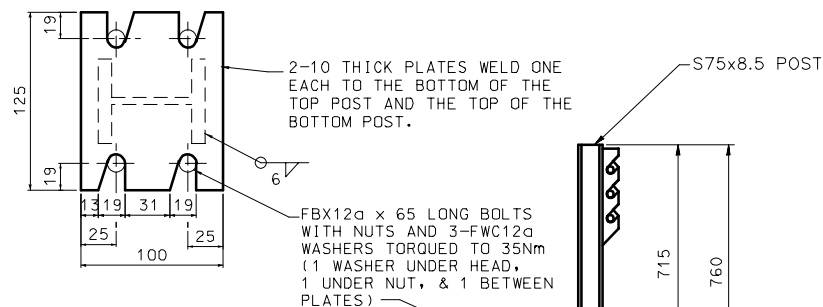
DETAIL FROM SHEET 1.

DETAIL B CABLE CLIPS

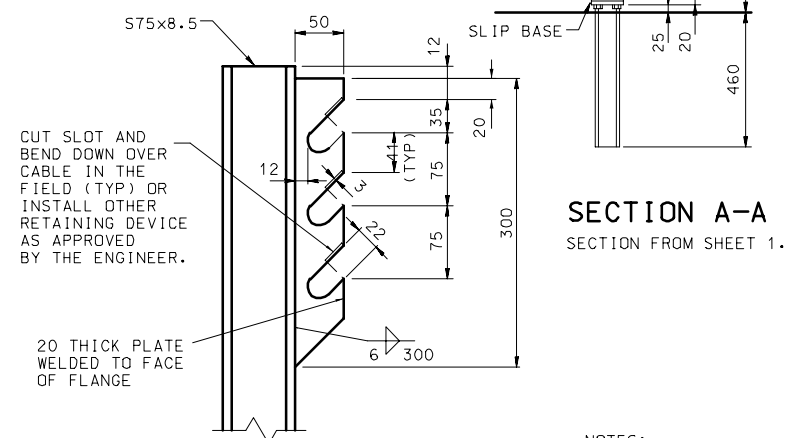
DETAIL FROM SHEET 1.

TERMINAL ANCHOR ASSEMBLY

DETAIL FROM SHEET 1.



SLIP BASE PLATE



CABLE SUPPORT

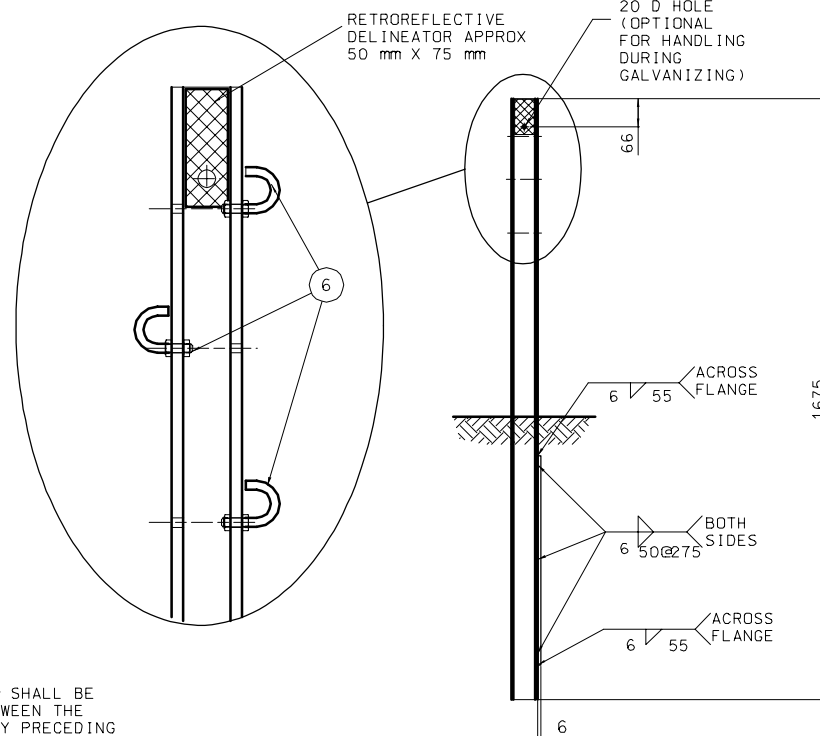
ANCHOR POST

FOR DETAILS (2) (4) (5) (6) AND (7) SEE SHEET 4 OF 4.

NOTES:

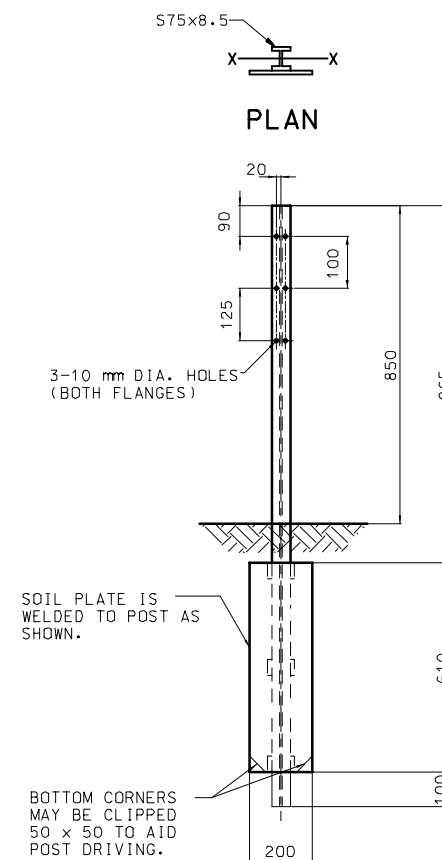
1. CABLES SPACED AT 150 mm SHALL BE TRANSITIONED TO 75 mm BETWEEN THE TWO LINE POSTS IMMEDIATELY PRECEDING THE ANCHOR POST.
2. CABLES PLACED ON BOTH POST FACES SHALL BE TRANSITIONED TO THE FRONT FACE BETWEEN THE TWO LINE POSTS IMMEDIATELY PRECEDING THE ANCHOR POST.

STANDARDIZED HARDWARE	
(1)	WIRE ROPE
(2)	CABLE END FITTING
(3)	COMPENSATING CABLE END ASSEMBLY
(4)	ANCHOR BRACKET
(5)	U-BOLT CABLE CLIPS
(6)	CABLE HOOK BOLT AND NUT
(7)	HOOKE ANCHOR BOLT AND NUTS
(8)	CABLE TRANSITION BRACKET



SECTION B-B

SECTION FROM SHEET 1.



SECTION C-C

LINE POST & WELDED SOIL PLATE

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

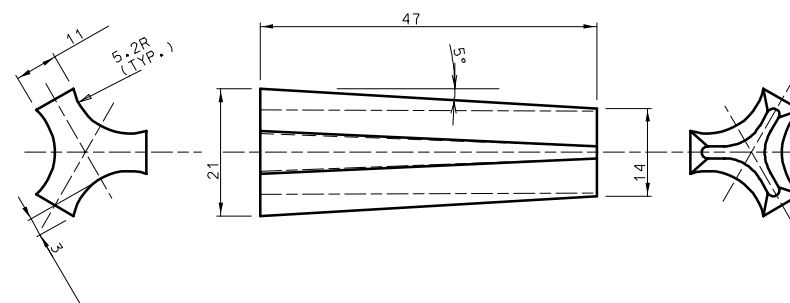
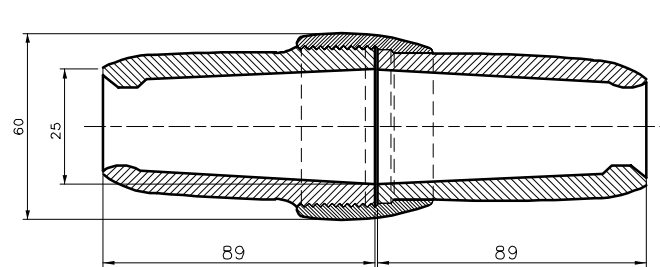
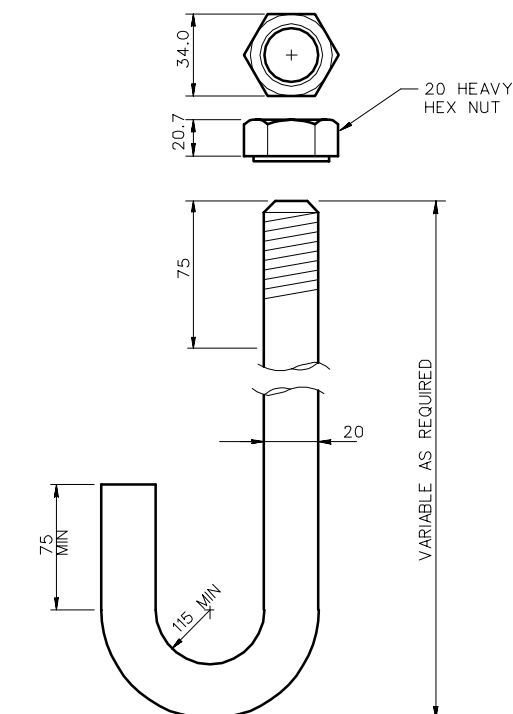
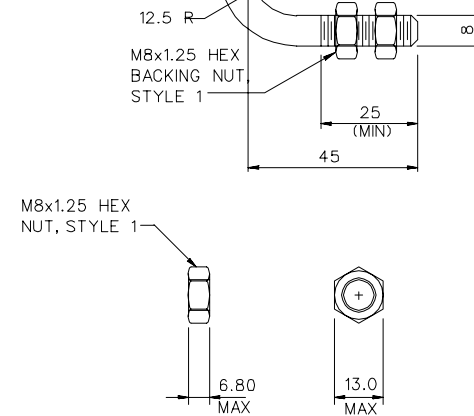
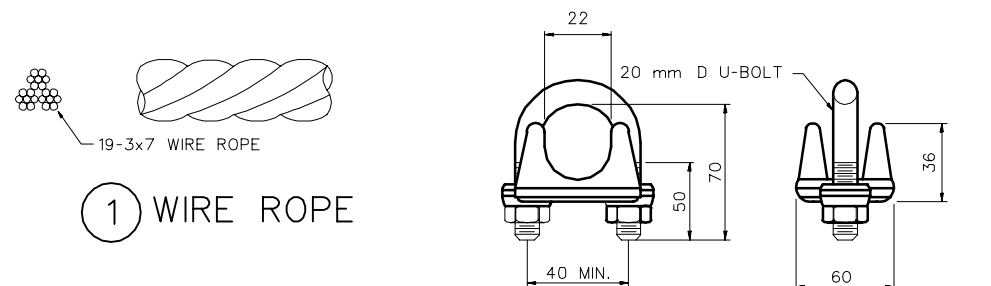
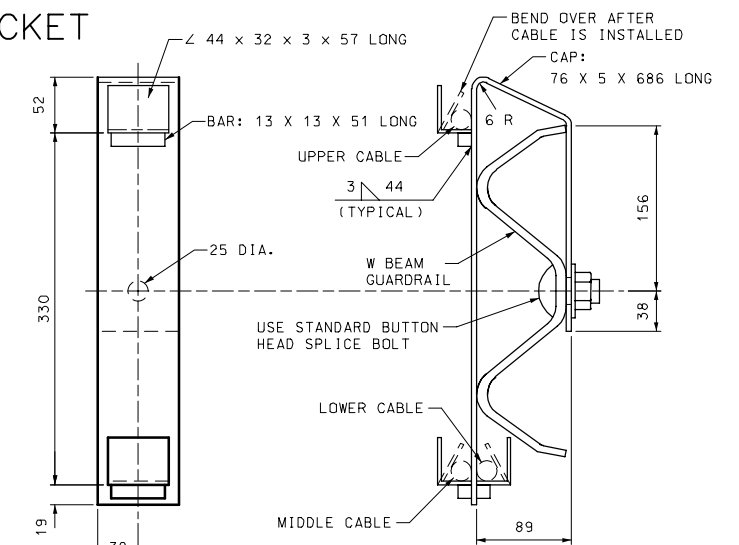
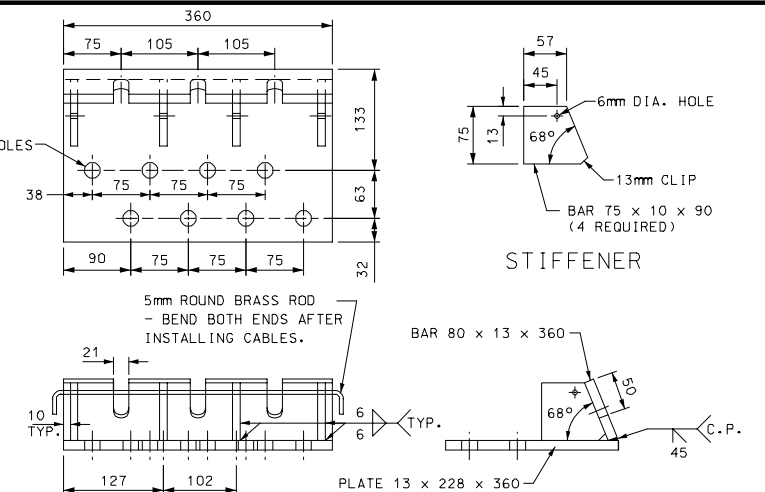
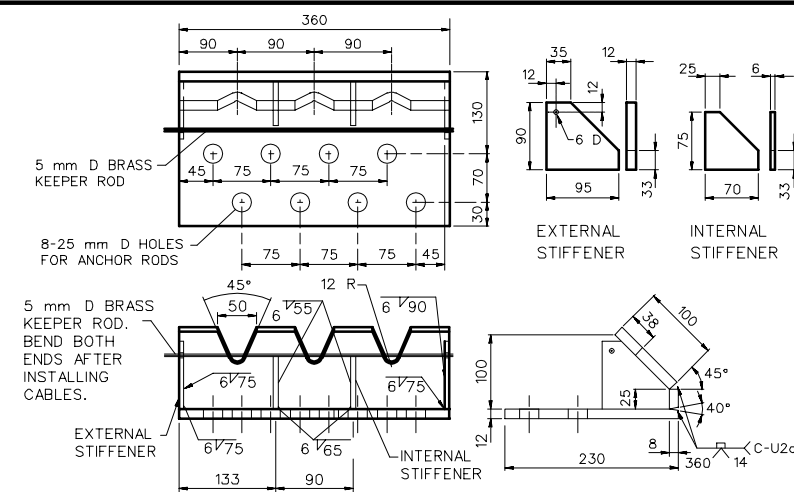
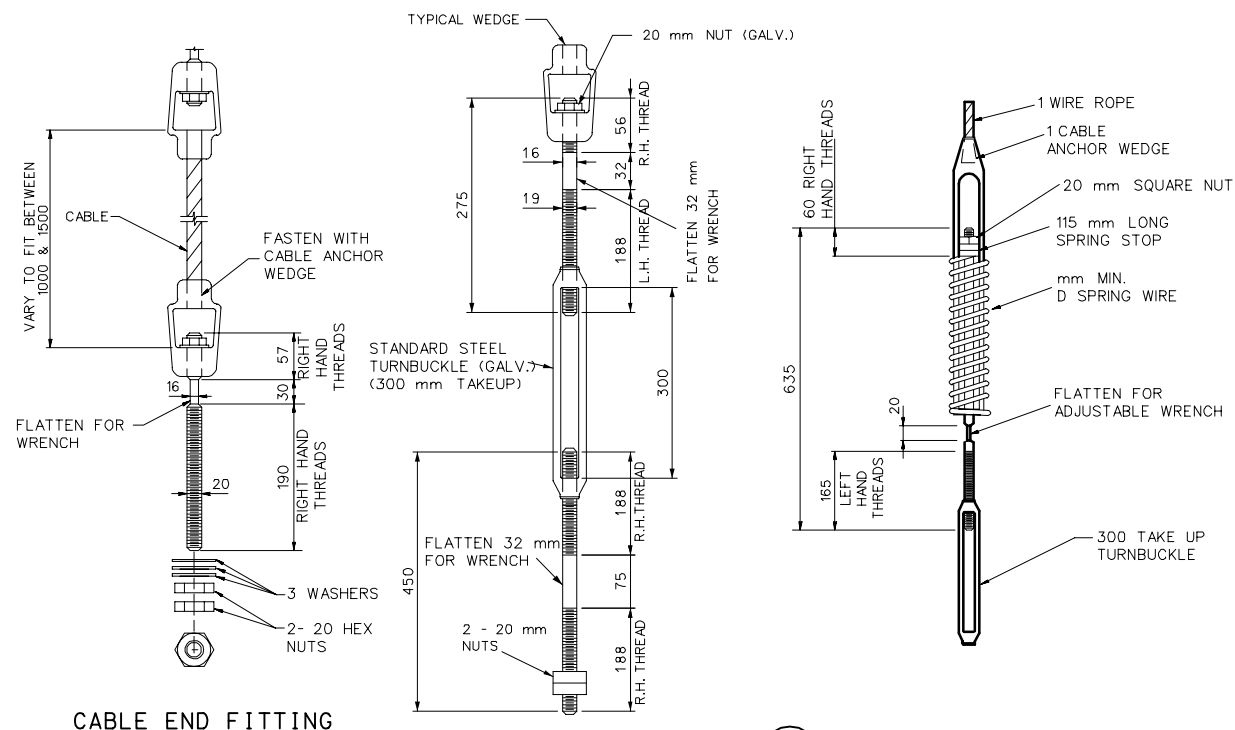
FOR ARRANGEMENT OF SPRING AND COMPENSATING CABLE END ASSEMBLIES AND TURNBUCKLE CABLE END ASSEMBLIES, THE FOLLOWING CRITERIA SHALL APPLY: LENGTH OF CABLE RUNS TO 300 m - USE COMPENSATING CABLE END ASSEMBLY ON ONE END AND THE TURNBUCKLE CABLE END ASSEMBLY ON THE OTHER END OF EACH INDIVIDUAL CABLE. FOR LENGTHS LONGER THAN 300 m AND UP TO AND INCLUDING 600 m - USE COMPENSATING CABLE END ASSEMBLY ON EACH END OF THE INDIVIDUAL CABLE.

PRIOR TO FINAL ACCEPTANCE BY THE ENGINEER, THE FOLLOWING PROCEDURES SHALL BE USED TO TIGHTEN THE TURNBUCKLES, DEPENDING ON THE TEMPERATURE AT THE TIME OF THE ADJUSTMENT IN ACCORDANCE WITH THE FOLLOWING TABLE:

TEMPERATURE (°C)	SPRING COMPRESSION FROM UNLOADED POSITION IN EACH SPRING (mm)
49° TO 38°	25
37° TO 27°	38
26° TO 16°	50
15° TO 5°	63
4° TO -6°	75
-7° TO -17°	88
-18° TO -29°	100

THE SPECIFICATIONS AND DIMENSIONS OF ALL HARDWARE AND FITTINGS SHALL COMPLY WITH AASHTO-AGC-ARTBA JOINT COMMITTEE TASK FORCE 13 REPORT, A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
THREE-STRAND GUARD CABLE			
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GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

AT ALL LOCATIONS WHERE THE CABLE IS CONNECTED TO A CABLE SOCKET WITH A WEDGE TYPE CONNECTION, ONE WIRE OF THE WIRE ROPE SHALL BE CRIMPED OVER THE BASE OF THE WEDGE TO HOLD IT FIRMLY IN PLACE.

THE SPECIFICATIONS AND DIMENSIONS OF ALL HARDWARE AND FITTINGS SHALL COMPLY WITH AASHTO-AGC-ARTBA JOINT TASK FORCE 13 REPORT, A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE.

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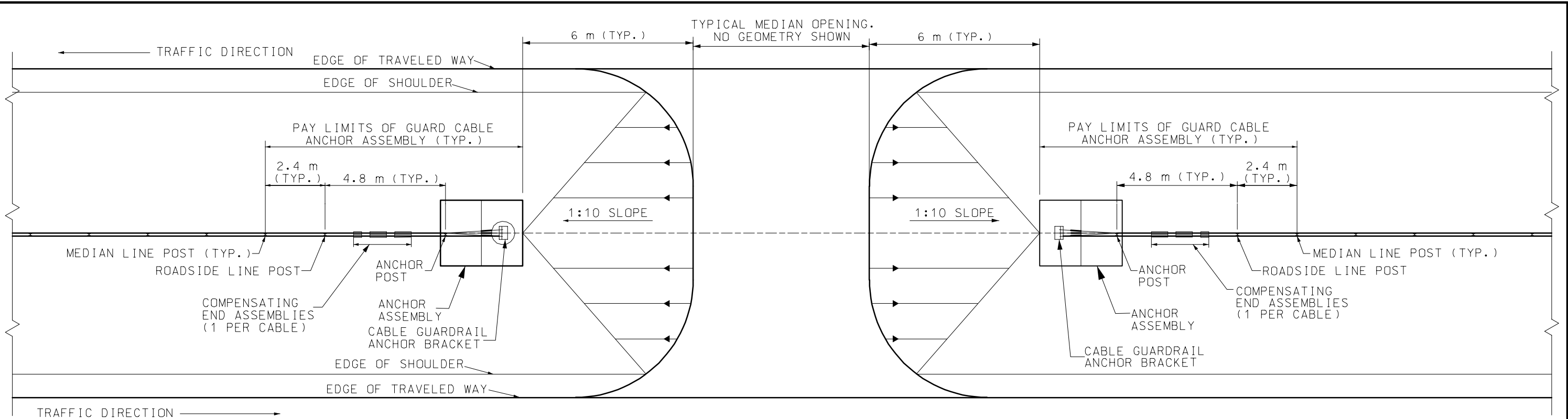
THREE-STRAND GUARD CABLE

DATE: _____

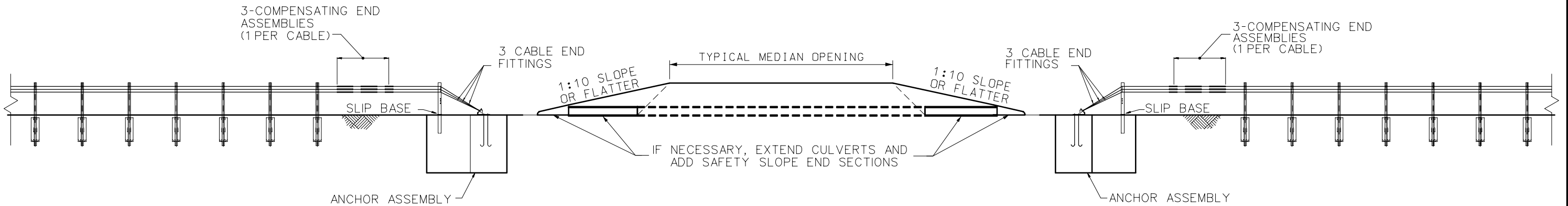
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PLAN



PROFILE

GENERAL NOTE:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
THREE-STRAND GUARD CABLE TRANSITION AT MEDIAN OPENING			
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